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| L73 and (relocat\$ near data or move near data) | 88 |

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| <u>L54</u> | 6397191.uref. | 0 | <u>L54</u> |
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| <u>L10</u> | (((707/104.1)!.CCLS.)) | 2090 | <u>L10</u> |
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L40: Entry 22 of 63

File: USPT

May 28, 2002

US-PAT-NO: 6397191

DOCUMENT-IDENTIFIER: US 6397191 B1

TITLE: Object-oriented workflow for multi-enterprise collaboration

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|--------|-------|----------|---------|
| Notani; Ranjit N. | Irving | TX | | |
| Parasnis; Abhay V. | Irving | TX | | |
| Whipple; Mark B. | Dallas | TX | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|--------------------------|--------|-------|----------|---------|-----------|
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APPL-NO: 09/ 154661 [PALM]

DATE FILED: September 18, 1998

PARENT-CASE:

RELATED APPLICATIONS This application is a continuation-in-part of U.S. patent Ser. No. 09/092,348, filed Jun. 5, 1998, now U.S. Pat. No. 6,119,149. This application is related to U.S. patent application Ser. No. 09,156,722 entitled "Computer Workspace Providing Event Management Based on a Permissibility Framework;" U.S. patent application Ser. No. 09/156,265 entitled "System and Method for Remotely Accessing Data;" U.S. patent application Ser. No. 09/156,264 entitled "Workflow Communication;" U.S. patent application Ser. No. 09/156,333 entitled "Workflow Synchronization;" U.S. patent application Ser. No. 09/156,334 entitled "Method and System for Managing Collaboration Within and Between Enterprises;" U.S. patent application Ser. No. 09/156,342 entitled "System and Method for Event Notification Through a Firewall;" and U.S. patent application Ser. No. 09/156,434 entitled "Exemplar Workflow Used in the Design and Deployment of a Workflow for Multi-Enterprise Collaboration;" all filed Sep. 18, 1998, all of which are currently pending, the disclosures of which are incorporated by reference herein.

INT-CL: [07] G06 F 17/60

US-CL-ISSUED: 705/9

US-CL-CURRENT: 705/9

FIELD-OF-SEARCH: 705/1, 705/7, 705/8, 705/9, 709/205, 700/99, 707/103

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
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| <input type="checkbox"/> 5634127 | May 1997 | Cloud et al. | 709/313 |
| <input type="checkbox"/> 5745687 | April 1998 | Randell | 709/201 |
| <input type="checkbox"/> 5931900 | August 1999 | Notani et al. | 709/200 |
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| 0 778 535 | June 1997 | EP | |
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Sun Microsystems; "Innovative Java technology that simplifies distributed application development"; Internet; <http://java.sun.com>; downloaded Jan. 1999; all. David Stirrup, et al.; "Workflow Management Coalition Advances Workflow Interoperability and Business Process Definition Interfaces"; Internet; <http://www.aiim.org/wfmc>; Feb. 26, 1996; all.

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Sun Microsystems, Inc.; "Java.TM.Object Serialization Specification"; Sun Microsystems, Inc.; Internet; <http://www.java.sun.com>; Nov. 30, 1998; all.

ART-UNIT: 2161

PRIMARY-EXAMINER: Trammell; James P.

ASSISTANT-EXAMINER: Dixon; Thomas A.

ABSTRACT:

A computer implemented process is disclosed for enterprise collaboration. The process includes instantiating an object-oriented workflow where the object-oriented workflow comprises objects associated with activities to be performed within the workflow. The objects of the object-oriented workflow are then deployed across enterprise boundaries to nodes on which associated activities are to be performed. After deployment, the deployed objects are executed to provide multi-enterprise collaboration with the activities communicating data using objects that carry both data and behavior. Further, in one embodiment, the process further includes creating in-memory object models at nodes which objects executing at the nodes can access.

40 Claims, 22 Drawing figures

WEST**End of Result Set**

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L44: Entry 2 of 2

File: USPT

Jun 6, 2000

DOCUMENT-IDENTIFIER: US 6073104 A

TITLE: System for invoice record management and asset-backed commercial paper program management

Detailed Description Text (13):

As shown in FIG. 5, which illustrates the first exemplary embodiment of system 30, the hardware configuration at each healthcare provider's location 40 includes a personal computer or workstation acting as a remote sentinel system 42. The currently preferred system 42 uses an Intel processor system, the "Microsoft Windows for Workgroups" operating environment, a database program comprising a runtime version of Microsoft's "Access" database program, Tools & Technologies' Data Junction program for capturing and translating data between various computer platforms, and International Software's Remote Office.TM. computer communication program. Sentinel system 42 preferably has two one-gigabyte hard drives and an internal fax/modem. The second one-gigabyte hard drive mirrors the first drive and serves as a backup. The sentinel system 42 is connected to the provider's local area network 44, and can download claim records and other information directly from the provider's mainframe or other computing facility 46, which executes the accounting system 36. The sentinel system 42 sends summary data to the central location 50.

Detailed Description Text (76):

FIG. 45 shows how the accounts payable, namely advance payable, interest payable and fees payable, are updated for each daily pool balance sheet by software 53. For each daily pool, the initial balance in the advance payable account is set equal to the amount advanced. For each day that the pool has a balance greater than zero in its advance payable account, an interest expense and a fee expense are calculated. On those days that the pool does not have any collections, the interest expense is added to interest payable on the balance sheet to create the new interest payable amount and interest paid on the cash flow statement is set equal to zero. Also, the fee expense is added to fees payable on the balance sheet to create the new fees payable amount and the fee paid on the cash flow statement is set equal to zero. If the pool has any collections, the collections are used to pay down accounts in the following order: interest, fees, and then advances. If the amount collected is less than today's interest expense plus the interest payable on the balance sheet, then the total amount collected is applied to interest and the new interest payable amount becomes the difference between today's interest expense plus the interest payable on the balance sheet and the amount collected. Interest paid on the cash flow statement equals the amount collected and fee paid is set equal to zero. If the amount collected is greater than or equal to that day's interest expense plus the balance in the interest payable account, then an amount equal to the interest expense plus the interest payable is used to pay off these accounts. Interest paid on the cash flow statement equals the day's interest expense plus the balance in the interest payable account. If the excess is less than today's fee expense plus the balance in the fee payable account, then the new fee payable amount equals today's fee expense plus the balance in the fee payable account minus the excess. Fee paid in the cash flow statement equals the excess. If the excess is greater than or equal to today's fee expense plus the balance in the fee payable account, then an amount equal to today's fee expense plus the balance in the fee payable account is used to pay off these accounts. Fee paid in the cash flow statement equals today's fee expense plus the balance in the fee payable account. If there is any remaining cash, the cash is used to pay down the advance payable account to the point where either all of the cash has been used or all of the advance payable has been paid off. The advance paid in the cash flow statement equals the reduction in the advance payable.

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L63: Entry 71 of 158

File: USPT

Oct 19, 1999

US-PAT-NO: 5970464

DOCUMENT-IDENTIFIER: US 5970464 A

TITLE: Data mining based underwriting profitability analysis

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

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| Rosen; Barry Kumin | Stormville | NY | | |
| Tipu; Fateh Ali | Wappingers Falls | NY | | |
| Wang; Hsueh-ju | Mohegan Lake | NY | | |
| White; Brian Frederick | Yorktown Heights | NY | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE | CODE |
|---|--------|-------|----------|---------|------|------|
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APPL-NO: 08/ 926804 [PALM]

DATE FILED: September 10, 1997

INT-CL: [06] G06 F 17/60

US-CL-ISSUED: 705/4; 705/7

US-CL-CURRENT: 705/4; 705/7

FIELD-OF-SEARCH: 705/4, 705/7, 705/10, 705/35, 705/36, 705/38, 705/2, 706/934, 706/12, 706/21, 706/60, 706/47, 707/104

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|----------------|----------------|-------------------|---------|
| <input type="checkbox"/> | <u>4766539</u> | August 1988 | Fox | 705/4 |
| <input type="checkbox"/> | <u>4975840</u> | December 1990 | DeTore et al. | 705/4 |
| <input type="checkbox"/> | <u>5586313</u> | December 1996 | Schnittker et al. | 707/104 |
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| <input type="checkbox"/> | <u>5781911</u> | July 1998 | Young et al. | 707/201 |
| <input type="checkbox"/> | <u>5809478</u> | September 1998 | Greco et al. | 705/4 |

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Gallagher, Cecily, "Risk Classification Aided by New Software Tool," National Underwriter Property & Casualty Risk Benefits and Management, No. 17, p.19, Apr. 27, 1992.
Derrig, Richard A., "Fuzzy Techniques of Pattern Recognition in Risk and Claims Classification," The Journal of Risk and Insurance, vol. 62 (Sept. 1995), pp. 447-482.
Bentley, Trevor, "Mining for Information," Management Accounting-London, vol. 75, No. 6 (Jun. 1997), p.56.

ART-UNIT: 271

PRIMARY-EXAMINER: Tkacs; Stephen R.

ASSISTANT-EXAMINER: Morgan; George D.

ABSTRACT:

A computer implemented method of underwriting profitability analysis delivers the analytic process to a wide cross section of insurance decision makers. The underwriting profitability analysis system leverages an existing investment in databases and improves underwriting business processes. Data mining techniques are applied to historical policy and claims to extract rules that describe policy holders with homogeneous claim frequency and severity characteristics. These rule sets are used to classify policy holders into distinct risk groups, each with its own set of characteristics, including pure premium. Breaking up a book of business into segments allows identification of sub-populations of policy holders that distinctly deviate from the expected normal pure premium. This identification allow the insurance business analysts to interactively adjust eligibility criteria and examine altered characteristics of the covered segments until satisfactory. The system is implemented on a client server using network centric language technology.

7 Claims, 14 Drawing figures

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L63: Entry 71 of 158

File: USPT

Oct 19, 1999

DOCUMENT-IDENTIFIER: US 5970464 A

TITLE: Data mining based underwriting profitability analysis

Detailed Description Text (42):

The scenario analysis subsystem is a crucial piece in the UPA solution that ties in the data mining process to the business problems at hand. The idea here is to allow the user to determine the value of a P&C insurance product by specifying it to the system, and having the system provide critical business information about the product, segment by segment. The scenario analysis screen shown in FIG. 13 is displayed when the user selects the Scenarios tab. Using the scenario analysis screen, the user will specify a database to analyze, a data mining model to be used as the base, and a product/population identifier. A product identifier is essentially a user created rule set, that could either represent an existing product, or a new product under consideration. Once specified, and the "Analyze" button selected from the "File" pull down menu, the system will perform a scenario analysis, and display to the user, in a subsequent screen, a detailed segmentation report.

Detailed Description Text (44):

The scenario analysis result will first report on the gross statistics on how the product rule set covered the database, and within this coverage, using the base model, will be a detailed segmentation report that breaks down the coverage into individual segments, listed by the segments' coverage, percentage coverage, severity estimate, frequency estimate, pure premium, loss ration, and other entries that may be of interest. In addition, the screen will permit the table to be sorted by any of these columns. This "what-if" style scenario analysis will assist the users to identify problems and opportunities with existing as well as new P&C products.

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Generate Collection

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L74: Entry 71 of 88

File: USPT

Mar 4, 1997

DOCUMENT-IDENTIFIER: US 5608874 A

TITLE: System and method for automatic data file format translation and transmission having advanced features

Detailed Description Text (202):

Payroll data has been automatically entered into the accounting software application general ledger, eliminating the need for this data to be entered manually. Subsequently, the subscriber enters the general ledger module of the accounting application software, and prints out an exception report. In this example, the exception report flags the subscriber that a certain employee received and inappropriate amount of money in his last paycheck, and that another certain employee's salary expense was allocated to a non-existent account number.

Detailed Description Text (203):

Bank statement data has been automatically entered into the bank book module of the accounting software application, eliminating the need for this data to be entered manually. The subscriber then enters the bank book module of the accounting software application and prints out reports to examine if any unusual transactions occurred. In this example scenario, a check that does not belong to the subscriber, and a check amount that does not agree with the bank statement amount have been flagged for the subscriber to review.

Detailed Description Text (212):

Data manipulations in the current invention may be metaphorically described as "manufacturing assembly line" style. The spirit of this feature of the invention is to move "raw data" into place, convert the "raw data" into usable data via processing stages, and finally move the "finished data" out for subscribers to use. Such an approach is useful because of the need to handle various pieces of raw and partially processed data with different programs created by, or associated with the present invention. The process includes an "assembly line" and "robots". The "assembly line" are the devices (both hardware and software) that move the data from one processing stage to the next processing stage. The "robots" are the programs comprising the current invention.

WEST



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Print

L3: Entry 17 of 28

File: USPT

Sep 17, 2002

DOCUMENT-IDENTIFIER: US 6453356 B1
TITLE: Data exchange system and method

Detailed Description Text (18):

Adapter A is configured to disassociate the informational content transported within the EDI data stream D.sub.1 from its associated EDI format and dialect. The EDI informational content extracted by adapter A is reformatted to a common representation and then transported through the data exchange engine 62 to a destination application within the inter-exchange carrier #2 environment. The adapter 120, in this embodiment, is configured to translate the EDI information content having a common format to an EDI format and dialect required by the destination application. Adapter 120 also converts source EDI information transmitted from inter-exchange carrier #2 into the common or generic form.

Detailed Description Text (20):

In FIG. 4, there is illustrated another embodiment of an information interchange environment within which the data exchange infrastructure in accordance with the present invention may find particular application. The data exchange infrastructure may be implemented to enhance workflow or process management systems which interact with any number of legacy or proprietary applications, remote data stores, or various user and application work queues. In this embodiment, the data exchange infrastructure provides for reliable application integration, data movement, and remote work queues. In this configuration, unreliable system implementations, such as screen scraping applications or networks with poor line condition, may be transformed into reliable implementations through use of the data exchange infrastructure. In particular, this unreliable to reliable conversion is achieved, for example, through the use of persistent queues, rollback processing upon transaction failures, which provides for transactional integrity, and transaction retry processing as necessary.

Detailed Description Text (108):

```
EXAMPLE #33 Assumes a populated DX_ListObject identified by a pointer "PlistObj" //
Instantiate the DX_ListObjectIterator for DX_ListObject pointer PlistObj
DX_ListObjectIterator PlistIter(*PlistObj); // Set the iterator to the beginning of
the list PlistIter.toFirst( ); DX_CommonBase *PcurrentObj=0;
PcurrentObj=(DX_CommonBase*)PlistIter.getCurrent( ); while(PcurrentObj) { // Do
something with object/attribute . . . PcurrentObj=(DX_CommonBase*) PlistIter.next(
); }
```

Detailed Description Text (197):

As was discussed previously, two types of priority based queues are used, namely, the incoming Receive Queues and the outgoing Send Queues. Each outgoing adapter will have its own outgoing queue so that any interface specific translation or routing may be performed outside the engine core. Each instance of the DX_Engine executable has one or more input queues, although only one is allowed for file-based queues, and one or more output queues. An instance of the DX_QueueManager class is used as a central proxy to all queue access, and will be mutex protected and record-lock protected, for file-based implementation, or row lock protected, for database implementations, to prevent data contention.

Detailed Description Text (215):

DX_FileSubQueue is mapped to a set of files of one queue of one priority. The internal DX_QueueObjectList object acts as a buffer at running time. All the

operations will not be written into files until commit or rollback time.

Detailed Description Text (223):

DX_DBQueue is the database-based implementation of the DX_Queue interface. Its instance is mapped to a single table per queue at run-time. The order of the records is determined by the enqueue time stamp. All dequeue operations are sorted by priority and enqueue time stamp. An illustrative example of a DX_DBQueue implementation is provided as follows:

Detailed Description Text (227):

The invocation of the Enqueue() and Dequeue() API is effected by sending a request to the Queue Manager Object. In response to a request, the Queue Manager Object locates the correct queue and populates the operations to that queue object. When Enqueue() is invoked, the object is placed into a buffer list and will not be collapsed into a data stream until Commit() is invoked. Until the commit time, the DX_IndexObject attribute of the DX_QueueOperation object retains the real meaning, which may be used in connection with a rollback operation if the commit operation is not successfully executed. For purposes of serialization, if the queue is a database, the row-level locking provided by the database is used. If the queue is a file, file access control is used. When a Common Object is serialized at commit time, a priority tag is appended to its private attribute list, such that when the Common Object is dequeued, its priority can be easily determined.